

METHODS AND APPARATUS PROVIDING REMOTE OPERATION
OF AN APPLICATION PROGRAMMING INTERFACE

5

ABSTRACT OF THE DISCLOSURE

10 A system can analyze an application programming interface definition to
automatically produce software string generator and parser software components
allowing remote access to functions within the application programming interface
definition by processes that are not natively compatible with the computing system
environment in which the application programming interface operates. A first string
generator processes can produce an encapsulated function call from a first process, such
as a Java-based process, that calls a first function in a first computing environment. A
second parser process operates in a second computing environment to receive the
15 encapsulated function call and to invoke a second function call in a second process, such
as a C-based process. Results from the second function call are returned to a second
string generator which produces an encapsulated response that is returned to a first parser
process. The first parser process maps the encapsulated response back into first function
call parameters for return to the first process, thus providing access to second functions of
20 the application programming interface by the first process.